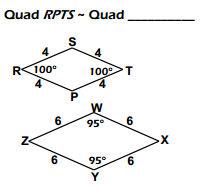
**Similarity Review**

1) The ratio of the measure of two complementary angles is 2:1. Find both angles.

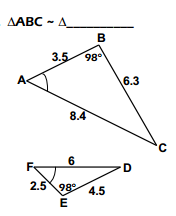
2) A 60 cm. segment is split into parts that have a ratio of 3:4:8. Find each segment.

3) The floor plan of a house is drawn to the scale of ¼ in = 1 ft. The master bedroom measures 3 in. by ¾ in on the blueprints. What are the actual dimensions of the room?

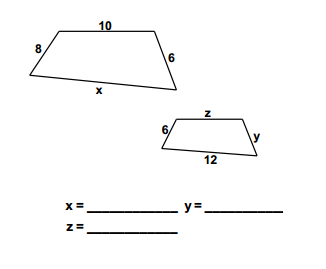
4) Are the polygons similar? Explain why or why not. If they are, write the similarity statement.



5) Are the triangles similar? Explain why or why not. If they are, write the similarity statement.



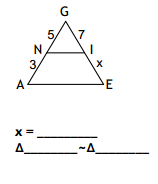
6) The figures are similar. Solve for the variables.



7) Are two isosceles triangles similar? Why or why not? Use complete sentences.

8) A rope from the tip of a flagpole reaches all the way down to the end of the flagpole shadow, a distance of 10 m. The length of the shadow is 6 m. How tall is the nearby football goal post if it has a shadow of 4 m?

9) The triangles are similar. Write the value of x as well as the similarity statement.



10) Solve the equation.  
